Mars Reconnaissance Orbiter Preproposal Conference

Science Review and Evaluation Process

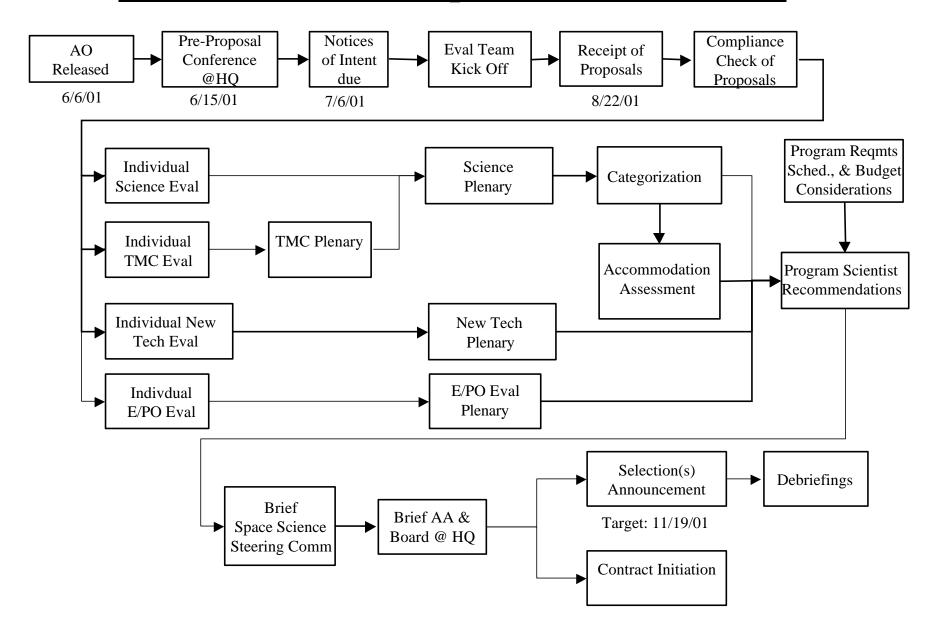
Dr. Jim Garvin June 15, 2001

Science Proposal Evaluation Criteria

• Evaluations for the two types of proposals, <u>PI Instrument & Facility Team member</u>

	PI Instrument & Facility Team
Scientific Merit	35%
Technical Merit & Feasibility	30%
Implementation Risk	20%
Competence & experience of Propo	oser 15%

Mars 05 Orbiter Proposal Review Process



Science Evaluation of Proposals

Science Evaluation

Evaluation Criteria:

- -- Merit
 - >> Must present traceability to scientific objectives (traceability analysis)
 - >> Must show how investigation will provide significant impact on state of knowledge (sensitivity analysis)
- -- Technical Merit & Feasibility
 - >> Adequacy of investigation to address science objectives within Mission constraints
 - >> Adequacy of science data analysis and archive plans
 - >> Appropriateness of investigation to data supplied (Facility Team member)
- -- Implementation Risk
 - >> Cost realism & reasonableness; implementation approach (Facility Team member)
- -- Competence & Experience of Proposer
 - >> Ability to carry out the investigation to a successful conclusion

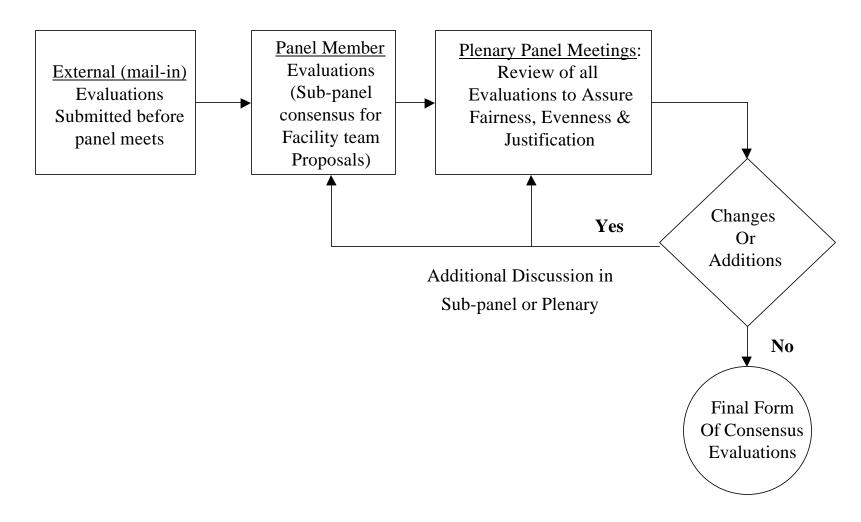
TMC Evaluation

Evaluation Criteria:

- -- Implementation Risk
 - >> Cost realism & reasonableness; implementation approach (PI Instrument)

Science Review & Evaluation Process

• Science Evaluation Flow:



Science Review & Evaluation Process

• Science Evaluators are:

- -- Non-conflicted academic, contractor, consultant, and other government agency personnel available to support the review
- -- Peers in the areas of expertise they evaluate
- -- Additional, external reviewers for proposals needing a particular specialty. Provide written input, but do not participate in final ratings

• Science Findings: Consensus of the entire panel

- -- Every proposal evaluated by multiple reviewers with a mixture of discipline expertise
- -- All proposals and findings discussed by the entire panel
- -- Final ratings are agreed to in a plenary session
- -- Report documents strengths and weaknesses for the criteria